

SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is 80%

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

SYSTEM:OS - DIALOG OneSearch

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File 94:JICST-EPlus 1985-2004/Oct W2
(c) 2004 Japan Science and Tech Corp(JST)

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File 156:ToxFile 1965-2004/Oct W5
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Enter Help News156 for more information.

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File 369:New Scientist 1994-2004/Oct W5
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File 370:Science 1996-1999/Jul W3
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File 135:NewsRx Weekly Reports 1995-2004/Oct W5
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***File 135: New newsletters are now added. See Help News135 for the complete list of newsletters.**

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(c) 2004 DECHEMA
File 357:Derwent Biotech Res. 1982-2004/Nov W2
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File 358:Current BioTech Abs 1983-2004/Oct
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File 91:MANTIS(TM) 1880-2004/Oct
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File 149:TGG Health&Wellness DB(SM) 1976-2004/Oct W3
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File 159:Cancerlit 1975-2002/Oct
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Please see HELP NEWS159.

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7.

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?s hepg2 and hsl		
	44142	HEPG2
	3491	HSL
S1	10	HEPG2 AND HSL